

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. – 14. (Canceled)

15. (New) A heat exchanger comprising:

several tray-shaped plates, which are placed on top of one another, are sealed together on their peripheral edges, and are provided with passages,

wherein continuous flow channels are each formed from the passages that lie essentially above one another;

wherein each flow channel traverses the plates;

wherein flow channels lying adjacent to one another are traversed by different media from an admission side to a discharge side;

wherein each flow channel has essentially elongate cross sections at the admission and discharge sides, each having a length L, a width B, and a length to width ratio L/B of between 1.5 and 12.

16. (New) The heat exchanger as claimed in claim 15, wherein each elongate cross section is an oval or rectangular cross section.

17. (New) The heat exchanger as claimed in claim 15, wherein different and adjacent flow channels have different cross-sectional shapes.

18. (New) The heat exchanger as claimed in claim 15, wherein the length to width ratio L/B of each elongate cross section is between 1.5 and 6.

19. (New) The heat exchanger as claimed in claim 18, wherein the length to width ratio L/B of each elongate cross section is between 1.5 and 3 or between 4 and 6.

20. (New) A heat exchanger as claimed in claim 15, further comprising a stacked-plate cooler for a vehicle.

21. (New) A heat exchanger as claimed in claim 15, wherein each individual plate comprises passages which have the essentially elongate cross section.

22. (New) The heat exchanger as claimed in claim 21, wherein the length to width ratio  $L/B$  of each elongate cross section is between 1.5 and 6.

23. (New) The heat exchanger as claimed in claim 22, wherein the length to width ratio  $L/B$  of each elongate cross section is between 1.5 and 3 or between 4 and 6

24. (New) The heat exchanger as claimed in claim 21, wherein each elongate cross section is a rectangular or oval cross section.

25. (New) The heat exchanger as claimed in claim 24, wherein the length to width ratio  $L/B$  of each elongate cross section is between 1.5 and 6.

26. (New) The heat exchanger as claimed in claim 25, wherein the length to width ratio  $L/B$  of each elongate cross section is between 1.5 and 3 or between 4 and 6.

27. (New) The heat exchanger as claimed in claim 21, wherein different passages have different cross-sectional shapes.

28. (New) The heat exchanger as claimed in claim 27, wherein said different passages comprise adjacent passages.

29. (New) The heat exchanger as claimed in claim 27, wherein the length to width ratio  $L/B$  of each elongate cross section is between 1.5 and 6.

30. (New) The heat exchanger as claimed in claim 29, wherein the length to width ratio  $L/B$  of each elongate cross section is between 1.5 and 3 or between 4 and 6.

31. (New) A plate for a heat exchanger, comprising:  
a plurality of passages,  
wherein two adjacent passages comprising parts of separate flow passages in the heat exchanger that are traversed by different media;  
wherein each passage has essentially elongate cross-sections at admission and discharge sides; and  
wherein the elongate cross sections each has a length  $L$ , a width  $B$ , and a length to width ratio  $L/B$  of between 1.5 and 12.